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S/N 09/785,546

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Sonya Franklin

Examiner: Charles L. Patterson, Jr., Ph.D

Serial No.: 09/785,546

Group Art Unit: 1652

Filed: February 16, 2001

Docket: 875.037US1

Title: ARTIFICIAL ENDONUCLEASE

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SUPPLEMENTAL PRELIMINARY AMENDMENT AND  
RESPONSE TO RESTRICTION REQUIREMENT

Commissioner for Patents  
Washington, D.C. 20231

In response to the Restriction Requirement mailed March 4, 2002, please amend the above-identified application as follows:

In the Claims

Please substitute the claim set in the appendix entitled "Clean Version of Pending Claims" for the previously pending claim set. Specific amendments are detailed below.

Please add the following claim:

- B<sup>1</sup>
33. (New) The peptide or polypeptide of claim 1 which comprises the amino acid sequence TERRRQQLDKDGDGTIDEREIKIWFQNKRAKIK (SEQ ID NO:7), or a catalytically active portion thereof.

Remarks

Claim 33 is added. Claims 1-33 are pending. Claim 33 is supported by Figure 2 of the specification.

Applicant respectfully requests the Examiner to consider that Applicant's invention is generally directed to an isolated synthetic peptide or polypeptide comprising a domain which specifically binds a nucleic acid sequence and a domain which specifically binds a metal which is hydrolytic or redox active, wherein the domain which specifically binds the metal is within the domain which specifically binds the nucleic acid sequence (i.e., the peptide or polypeptide is a synthetic endonuclease, claims 1-18 and 30-33), an isolated nucleic acid molecule, expression cassette or vector encoding the peptide or polypeptide of the invention, or host cell comprising the expression cassette of the invention (claims 19-25), methods of using the peptide or